

Notice of Allowability

Application No.

09/049,288

Applicant(s)

COUTURE, LOUIS

Examiner

Phuongchau Ba Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9-14-04 RCE; interview 11-22-04.
2. ☒ The allowed claim(s) is/are 1-18, 22-35, 37-48, 50-54, 56-69, 71-85, 87-90, 92-138, 140; Renumbered as 1-130 respectively.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☒ to Paper No./Mail Date 5-3-98.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>11-22-04</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Lester Vincent on 11/22/04.

3. The application has been amended as follows:

Claim 1, lines 4, 5-6, 10, 12; Claim 3, line 4; Claim 8, lines 2, 4; Claim 9, lines 2, 4; Claim 10, lines 2, 6, 8; Claim 14, line 2; Claim 15, line 2; Claim 16, line 2; Claim 17, line 2; Claim 22, line 2; Claim 23, lines 2, 4; Claim 25, lines 4, 8-9, 11, 15; Claim 27, lines 6-7; Claim 28, lines 4-5; Claim 31, line 2; Claim 33, lines 3, 6, 8; Claim 41, lines 6, 10, 16-17; Claim 42, lines 6-7; Claim 43, line 5; Claim 46, lines 3, 5, 9; Claim 47, lines 3, 6, 8; Claim 53, line 2:

"executable instructions" had been changed to ---software routines---

Claim 54, line 9:

--- , wherein the processing further comprises generating at least one packet of data from a PCM data stream, the PCM data stream having

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been received from the telephony network--- had been inserted after the phrase "a data network".

Claim 55 had been canceled

Claim 56, line 1:

"55" had been changed to ---54---

Claim 69, line 9:

--- , wherein the processing further comprises generating a PCM data stream from at least one packet of data, the first network being a data network, the second network being a telephony network--- had been inserted after the phrase "a telephony network".

Claim 70 had been canceled.

Claim 71, line 1:

"69" had been changed to ---70---

Claim 90, lines 2-4:

"determining a type of data to be processed by a Digital Signal Processor (DSP) while broadcasting a plurality of software routines that can be executed by the DSP toward the DSP" **had been changed to**

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--- determining a type of data to be processed by a slave Digital Signal Processing (DSP) while broadcasting from a master DSP a plurality of software routines, that can be executed by the slave DSP, toward the slave DSP---

Claim 90, line 7:

---slave--- had been inserted before the word "DSP"

Claim 90, line 8:

--- , wherein the processing further comprises generating at least one packet of data from a PCM data stream, the data in transition from a telephony network to a data network --- had been inserted after the phrase "networks"

Claim 91 had been canceled.

Claim 103, line 2; Claim 105, line 3; Claim 106, line 3:

---slave--- had been inserted before the word "DSP"

Claim 92, line 1; Claim 93, line 1:

"91" had been changed to ---90---

Claim 130, line 7:

--- and to generate at least one packet of data from a PCM data stream ---
had been inserted after the word "routines".

4. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-18, 22-35, 37-48, 50-54, 56-69, 71-85, 87-90, 92-138, 140,
the prior art fails to teach or suggest

a method for supporting digital signal processing (DSP) of a plurality of data types, the method comprising "processing data with the selectively monitored for and received software routines and the one DSP by executing at least a portion of the selectively monitored for and received software routines upon the one DSP, the data being of the type of data, the processing to process the data as it travels between networks"(claim 1), in combination with other limitations, as specified in the independent claims 1-18, 22-24;

an apparatus for supporting digital signal processing (DSP) of a plurality of types of data, the apparatus comprising "a plurality of service DSP engines communicatively coupled to the serial bus and to at least one data line, at least one of the plurality of service DSP engines designed to selectively monitor for and receive software routines for at least one algorithm of the plurality of algorithms in response to a determination of a type of data that the at least one service DSP engine is to process"(claim 25), in combination with other limitations, as specified in the independent claims 25-35, 37-40;

a multiservice digital signal processing (DSP) comprising "a plurality of service DSP engines coupled to at least one data line and the serial bus, at least one of the plurality of service DSP engines being tailored to selectively monitor for and receive the software routines for at least one algorithm form the serial bus in response to a determination of a type of data that the at least one DSP service engine is to process"(claim 41), in combination with other limitations, as specified in the independent claims 41-48, 50-53;

a computer readable medium containing software routines which, when executed by a digital signal processor (DSP), cause the DSP to perform a method, the method comprising "processing data having the determined type with software routine as the data travels between a telephony network and a data network, wherein the processing further comprises generating at least one packet of data from a PCM data stream, the PCM data stream having been received from the telephony network"(claim 54), in combination with other limitations, as specified in the independent claims 54, 56-68;

a method comprising "processing data of the determined type with the at least one software routine in order to help transport the data from at first network to a second network, wherein processing further comprises generating a PCM data stream from at least one packet of data, the first network of being a data network, the second network being a telephony network"(claim 69), in combination with other limitations, as specified in the independent claims 69, 71-82;

an apparatus for supporting digital signal processing (DSP), the apparatus comprising "identifying, based upon the determining, at least one software routine from the plurality of software routines; selectively monitoring for and receiving the at least one software routine from the plurality of software routines"(claim 83), in combination with other limitations, as specified in the independent claims 83-85, 87-89;

a method comprising "processing data by executing the software routine upon the slave DSP, the data being the type of data, the data in transition between networks, wherein the processing further comprises generating at least one packet of data from a PCM data stream, the data in transition from a telephony network to a data network"(claim 90), in combination with other limitations, as specified in the independent claims 90, 92-114;

an apparatus comprising "a bus to transport said plurality of software routines toward said plurality of service DSP engines, said memory of each service DSP engine capable of storing a particular software routine selected from said broadcasted plurality of software routines as a consequence of said memory's corresponding service DSP engine having determined the particular software routine in response to determining a type of data that is constituent DSP is to process"(claim 115), in combination with other limitations, as specified in the independent claims 115-129;

an apparatus comprising "a service DSP engine to process data as it travels between networks, said service DSP engine to determine a particular

software routine from a plurality of continuously broadcasted software routines based upon said data's type, said DSP to execute said particular software routine and to generate at least one packet of data from a PCM data stream, a first of said networks being a telephony network, a second of said networks being a data network" (claim 130), in combination with other limitations, as specified in the independent claim 130.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuongchau Ba Nguyen whose telephone number is 571-272-3148. The examiner can normally be reached on Monday-Friday from 10:00 a.m. to 2:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phuongchau Ba Nguyen
Examiner
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